

ORION Li-ion 48V 18.2Ah Battery



Lithium Ion

The ORION Li-ion 48V 18.2Ah battery is a popular lithium ion battery. It is intended for use in high capacity, high voltage battery. It can power a wide range of devices including an electric buffer, e-bike, medical devices etc.

Do not purchase batteries before reading and understanding these safety cautions. Using a lithium ion battery incorrectly may cause it to leak, generate heat, smoke, catch on a fire, or explode.



SAFETY

- +The cell must stay in the operating temperatures outlined in its datasheet.
- +The cell must not exceed voltage, current, and other ratings in its datasheet.
- + Store batteries separately, and do not transport without proper packaging.
- +Never store or transport together with conductive or metallic objects particularly in a pocket or bag
- +Do not keep in the sun, in a hot car, or anywhere with direct heat.
- +Recycle discontinued batteries according to local regulations and cover terminals with insulating tape before disposal.
- + Discharge end or cut-off voltage in data sheet is lower-limit for discharge cycle and should not be exceeded.
- +Charger or device should implement warning for over-voltage, over current, and over-temperature, control of overcharge.
- +Be careful not to short-circuit.

TECHNICAL DATA

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|---|--------------------|
| Battery Dimensions | 250x140x75mm |
| Battery Weight | 4350g |
| Cell Type | Lithium Ion |
| Cell Capacity (nominal/minimum) (0.5C Rate) | 18.2Ah |
| Voltage (nominal) | 48V |
| Energy Density | 873.6kWh |
| Recommended Standard Charge Method | 3.64A, 54.6V CC-CV |
| Maximum Charge Method | 9.1A, 54.6V CC-CV |
| Maximum Continuous Discharge | 30A |
| Discharge Cut-off Voltage | 35.75V |
| Cycle Life (80% DOD) | 500 cycles |
| Operating Temperature | -20°C to 60°C |
| Storage Temperature | 0°C to 45°C |